

U.S. Application No. 10/005,356

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-29. Cancelled. (Without disclaimer or prejudice).

30. (New) A method for enabling a call-back from an entity to an equipment initiating a session comprising:

when the equipment initiates a session, the equipment sends a session setup message for initiating the session to a first node, wherein the first node stores a first record for the equipment for a predetermined time, the first record including an address and an identity of the equipment and the first node forwards the session setup message to a second node;

the second node stores a second record for the equipment for a predetermined time which second record includes the address of the first node and the identity of the equipment and the second node forwards the session setup message to a third node or an emergency center;

the third node or the emergency center stores a third record for the equipment for a predetermined time which third record includes the address of the second node and the identity of the equipment;

In case of a call-back, the entity comprises the third node or the emergency center and uses the stored identity of the equipment to find and in the third record the address of the second node and the third node or the emergency center sends to the second node a message related to the call-back which includes the identity of the equipment;

the second node uses the equipment identity included in the message, received from the third node related to the call-back to find in the second record the

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address of the first node and the second node sends to the first node a message related to the call-back includes the identity of the equipment; and

the first node uses the equipment identity included in the message received from the second node related to the call-back to find in the first record an address of the equipment and the first node sends to the equipment a session initiation message.

31. (New) A method in accordance with claim 30 wherein:
the session is an emergency session.

32. (New) A method in accordance with claim 30 wherein:
the message is a SIP message.

33. (New) A method in accordance with claim 30 comprising:
establishing the session with a signalling bearer which is maintained for a predetermined time from a beginning of activation of the signalling bearer.

34. (New) A method in accordance with claim 30 wherein:
the nodes are IMS nodes and include at least one of a P-CSCF, S-CSCF or a MGCF node.

35. (New) A method in accordance with claim 30 wherein:
the first and second nodes and the third node or the emergency center include a timer for measuring the predetermined time.

36. (New) A method in accordance with claim 30 wherein:
if a session is released before a normal completion thereof, the third node or the emergency center starts the call-back.

37. (New) A method in accordance with claim 30 wherein:
the third node or the emergency equipment is in a circuit switched domain.

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38. (New) A method in accordance with claim 37 wherein:
the equipment identity is carried in a calling line identity parameter of a ISUP message to a signalling gateway.

39. (New) A system comprising first and second nodes and a third node or an emergency center and an equipment for enabling a call-back from the third node or the emergency center to an equipment initiating a session; wherein

when the equipment initiates a session, the equipment sends a session setup message for initiating the session to a first node, wherein the first node stores a first record for the equipment for a predetermined time which includes an address and an identity of the equipment and the first node forwards the session setup message to the second node;

the second node stores a second record for the equipment for a predetermined time which second record includes the address of the first node and the identity of the equipment and the second node forwards the session setup message to the third node or the emergency center;

the third node or the emergency center stores a third record for the equipment for a predetermined time which includes the address of the second node and the identity of the equipment;

in case of a call-back, the third node or the emergency center uses the stored identity of the equipment to find in the third record the address of the second node and the third node or the emergency center sends to the second node a message related to the call-back which includes the identity of the equipment;

the second node uses the equipment identity included in the message received from the third node related to the call-back to find in the second record the address of the first node and the second node sends to the first node a message related to the call-back which includes the identity of the equipment; and

the first node uses the equipment identity included in the message received from the second node related to the call-back to find in the first record an address of the equipment and the first node sends to the equipment a session initiation message.

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40. (New) A system in accordance with claim 39 wherein:
the session is an emergency session.
41. (New) A system in accordance with claim 39 wherein:
the message is a SIP message.
42. (New) A system in accordance with claim 30 comprising:
a signalling bearer for establishing the session which is maintained for a
predetermined time from a beginning of activation of the signalling bearer.
43. (New) A system in accordance with claim 39 wherein:
the nodes are IMS nodes and include at least one of a P-CSCF, S-CSCF or a
MGCF node.
44. (New) A system in accordance with claim 39 wherein:
the first and second nodes and the third node or the emergency center
include a timer for measuring the predetermined time.
45. (New) A system in accordance with claim 30 wherein:
if a session is released before a normal completion thereof, the third node or
the emergency center starts the call-back.
46. (New) A system in accordance with claim 39 wherein:
the third node or the emergency equipment is in the circuit switched domain.
47. (New) A system in accordance with claim 39 wherein:
the equipment identity is carried in a calling line identity parameter of a ISUP
message to a signalling gateway.

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48. (New) A node in a system comprising first and second nodes and a third node or an emergency center and an equipment for enabling a call-back from the third node or the emergency equipment to an equipment initiating a session and wherein, when the equipment initiates a session, the equipment sends a session setup message for initiating the session to a first node, wherein the first node stores a first record for the equipment for a predetermined time which includes an address and an identity of the equipment and the first node forwards the session setup message to the second node, the second node stores a second record for the equipment for a predetermined time which includes the address of the first node and the identity of the equipment and the second node forwards the session setup message to the third node or the emergency center, the third node or the emergency center stores a third record for the equipment for a predetermined time which includes the address of the second node and the identity of the equipment, in case of a call-back the third node or the emergency center uses the stored identity of the equipment to find in the third record the address of the second node and the third node or the emergency center sends to the second node a message related to the call-back including the identity of the equipment, the second node uses the equipment identity included in the message received from the third node related to the call-back to find in the second record the address of the first node and the second node sends to the first node a message related to the call-back including the identity of the equipment, and the first node uses the equipment identity included in the message received from the second node related to the call-back to find in the first record an address of the equipment and the first node sends to the equipment, a session initiation message, the node comprising:

means for storing the record for the equipment; and
means for generating and forwarding the session message to another node or the emergency center.

49. (New) A node in accordance with claim 48 wherein:
the node comprises the first node.

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50. (New) A node in accordance with claim 48 wherein:
the node comprises the second node.

51. (New) A node in accordance with claim 48 wherein:
the node comprises the third node.

52. (New) A node in accordance with claim 48 comprising:
means for receiving the session setup message;
means for receiving a call-back message from another node or the
emergency center; and
means for forwarding the call-back message to another node.

53. (New) An emergency center in a system comprising first and second
nodes and the emergency center and an equipment for enabling a call-back from the
emergency equipment to an equipment initiating a session and wherein, when the
equipment initiates a session, the equipment sends a session setup message for
initiating the session to a first node, wherein the first node stores a first record for the
equipment for a predetermined time which includes an address and an identity of the
equipment and the first node forwards the session setup message to the second
node, the second node stores a second record for the equipment for a
predetermined time which includes the address of the first node and the identity of
the equipment and the second node forwards the session setup message to the
emergency center, the emergency center stores a third record for the equipment for
a predetermined time which includes the address of the second node and the identity
of the equipment, in case of a call-back the emergency center uses the stored
identity of the equipment to find in the third record the address of the second node
and the emergency center sends to the second node a message related to the call-
back including the identity of the equipment, the second node uses the equipment
identity included in the message received from the third node related to the call-back
to find in the second record the address of the first node and the second node sends
to the first node a message related to the call-back including the identity of the
equipment, and the first node uses the equipment identity included in the message

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received from the second node related to the call-back to find in the first record an address of the equipment and the first node sends to the equipment, a session initiation message, the emergency center comprising:

means for storing the record for the equipment; and
means for receiving the session message from the second node.

54. (New) An emergency node in accordance with claim 53 comprising:
means for forwarding the call-back message to the second node.